

Accesses

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Accesses - Purpose



Fulfill Requirements

- **Allow Users Write Access To Plans**
- **Prevent Multiple Users From Scheduling Over Each Other**
- **Provide Write Access Visibility of Other Users**

Risk Mitigation

- **Access Design Confusing to Users**
- **Little Heritage Code Addressing Multiple User Systems**

Accesses - Approach



Investigate Implementation Alternatives

- **Specialized GUI For Handling Accesses**
 - Plan Window Manager presented last PRR (February, 1995)
- **Creating Accesses on Timeline**
 - Click and drag for access creation
- **Current Design**
 - Access created as side effect of opening plan

GUI Plan Window Manager Results



Method

- User Selects Plan, Resources and Time Range

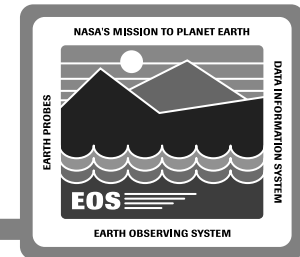
Advantages

- Provides Complete Flexibility

Disadvantages

- Confusing to Users at PRR and UARS
- Text Input for Selection is Clunky
- Separate Tool Needed to Support Method

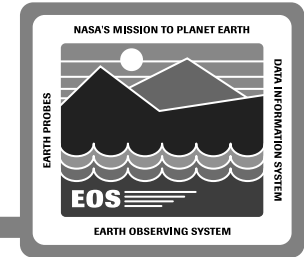
GUI Plan Window Manager



"Plan Window Manager"

Plans Master EOC plan1 what if	Accesses 	User Name <input type="text" value="demo"/> Start <input type="text" value="14 JUN 1999"/> <input type="text" value="02:00:00"/> Stop <input type="text" value="14 JUN 1999"/> <input type="text" value="04:00:00"/>
Choose A Resource AM1 MISR AM1 MOPITT AM1 TIR AM1 SWIR AM1 VNIR AM1 Com Subsys AM1 DP subsys	Selected Resources AM1 CERES FORE AM1 CERES AFT	<input type="button" value="Create"/> <input type="button" value="Delete"/> <input type="button" value="Update"/>

Timeline Using Drag Creation Method



Method

- Mouse Used To Drag Rectangle For Access Creation

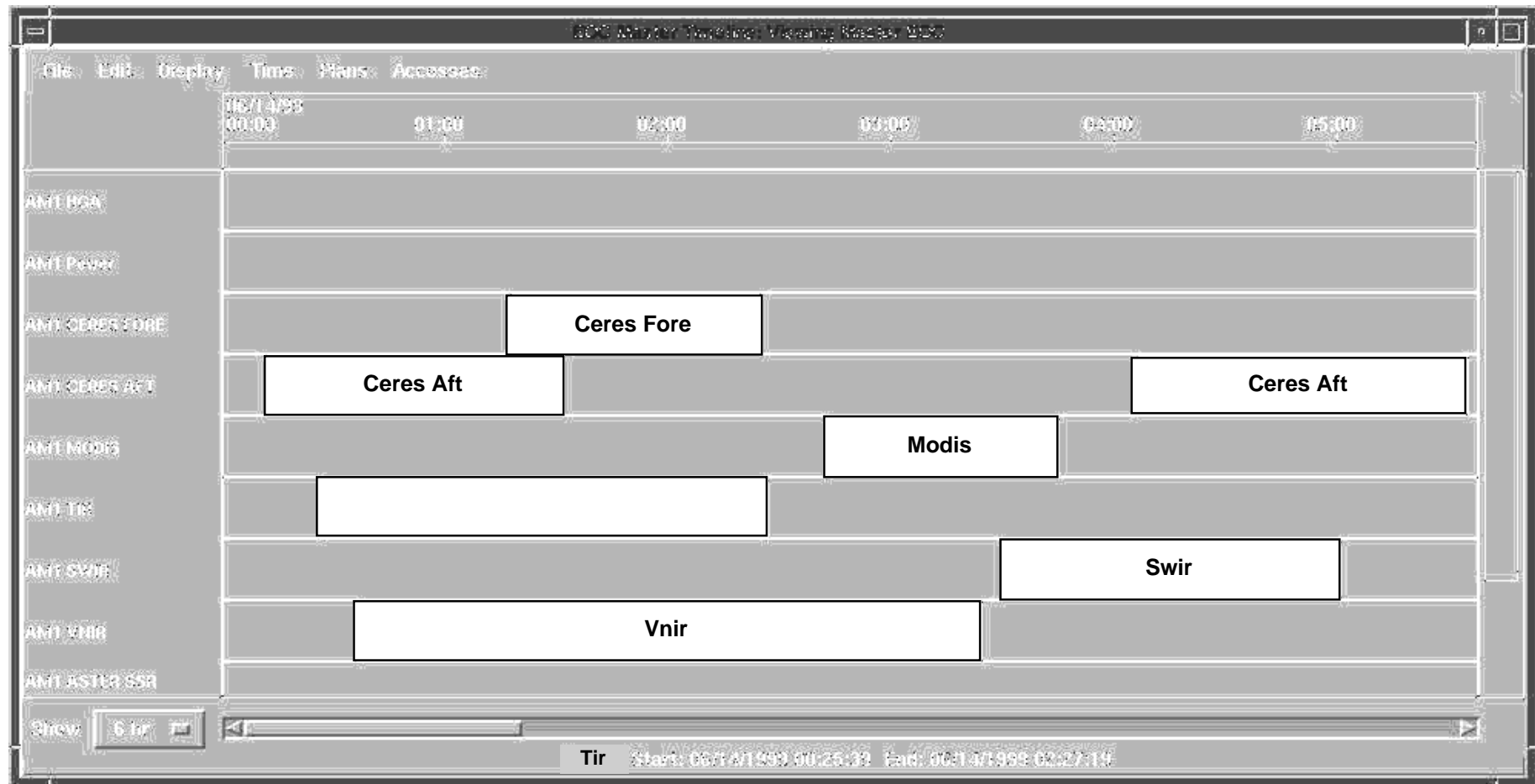
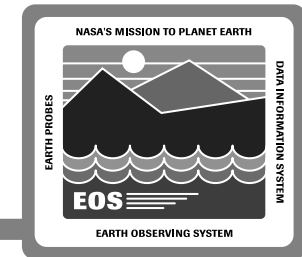
Advantages

- Select Many Time Ranges Within An Open Plan
- Easier Access Creation Than Specialized GUI

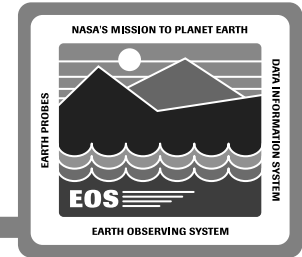
Disadvantages

- Dragging Doesn't Support Selection of Fine Time Range
- Method Provides More Capability than Necessary

Access Creation From Timeline



Current Design



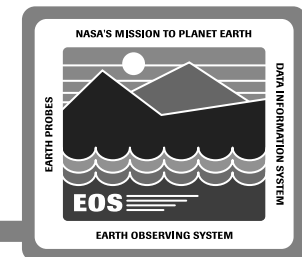
Method

- **User Selects Plan To Open With Time Range**
- **Timeline Displays Access Created When Plan Was Opened**
- **Access Has Same Time Span as Portion of Plan Opened**
- **Toggle Buttons Allow User to Modify Accesses**

Advantages

- **Simple Concept**
 - **Similar idea used in heritage systems**
- **Easy Interface**
- **Maintains Benefit of Using Timeline to Display Accesses**
- **Implementation Reuses Code From Previous Prototypes**

Plan Tool



Plan Tool

Plans

Master EDC
What If
Ceres What If

Currently Opened Plans

Master EDC (unedited)	1996/013-12:00:00	1996/014-00:00:00
Master EDC (edited)	1996/013-12:00:00	1996/014-00:00:00
Ceres WhatIf	1996/013-00:00:00	1996/019-00:00:00

Start Time

Stop Time

Plan Resources

TIRS-1
AML HCA
AML Power
AML
AML Low -Rate SSR
AML MODIS SSR

Opened Resources

AML CERES FORE
AML CERES AFT

Open Close Snap To Help

Timeline - Current Design

